

# Interagency Waste Working Group for Landfill Diversion

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# Interagency Waste Working Group (IAWWG)

## IAWWG Focus

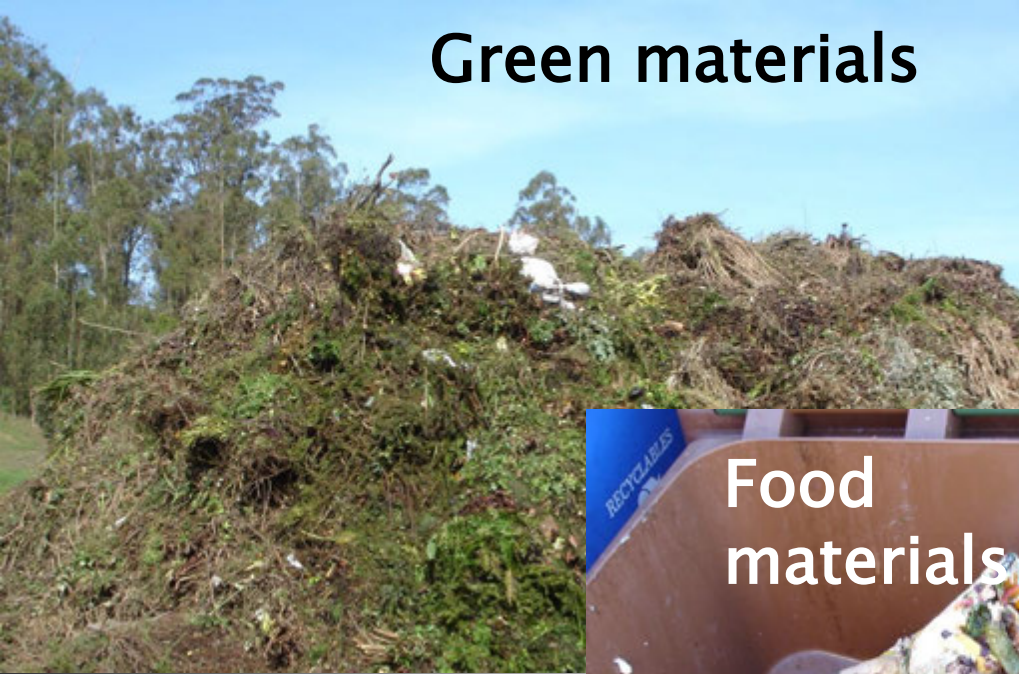
- ▶ What: *Organics diversion from landfills*
- ▶ Why: *Governor's 5 Pillars, SB 1383, AB 1045, AB 32, HSI, AB 341, AB 1826, AB 1594, AB 876, AB 939*
- ▶ Who: *ARB, CAPCOA, Air Districts, CalRecycle, SWRCB, CDFG*

## Subcommittees

- ▶ *Permitting*
- ▶ *Economics/Incentives*
- ▶ *CEQA/Siting*

# What are organics?

Green materials



Wood waste



Food materials



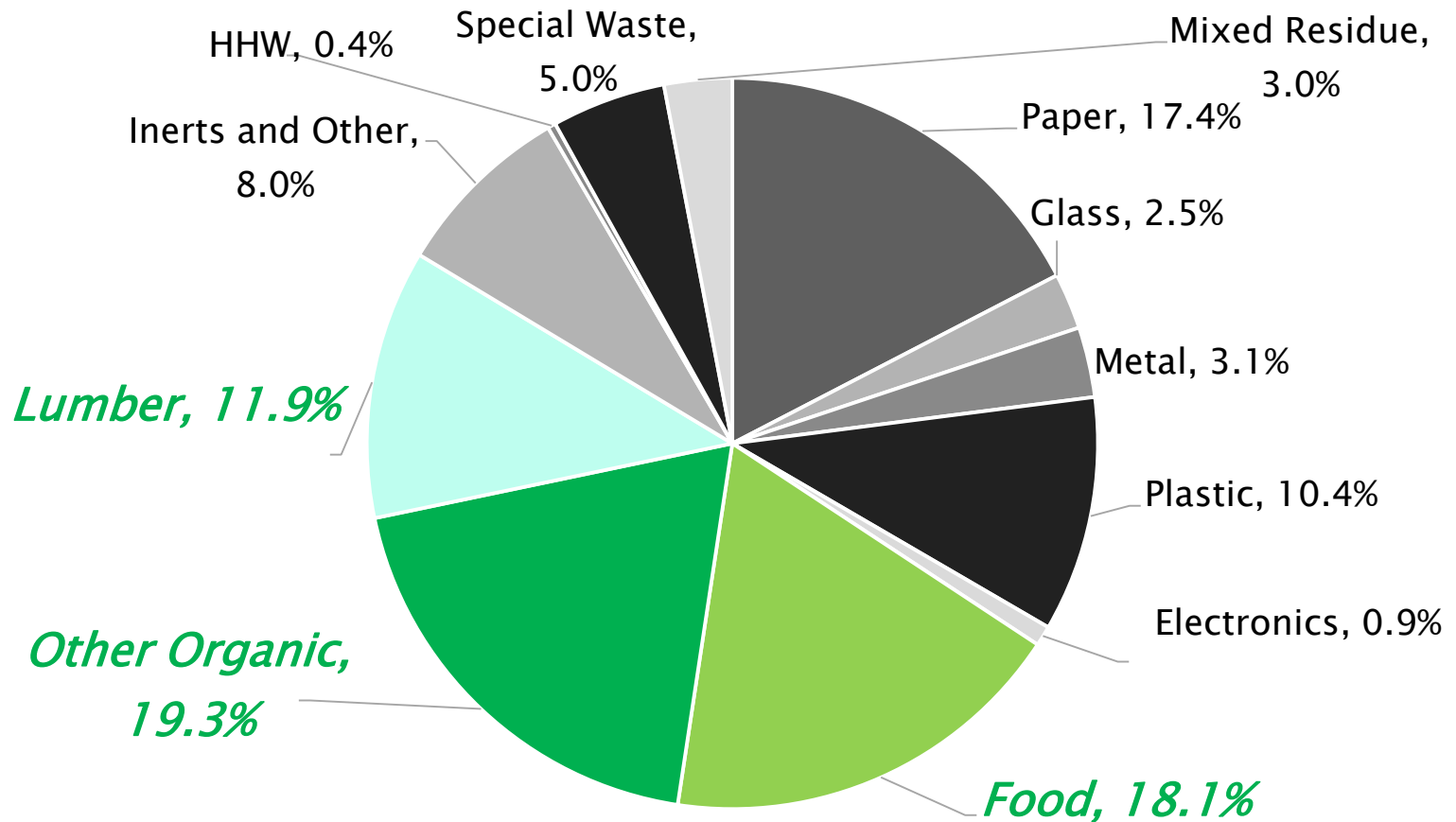
Manure



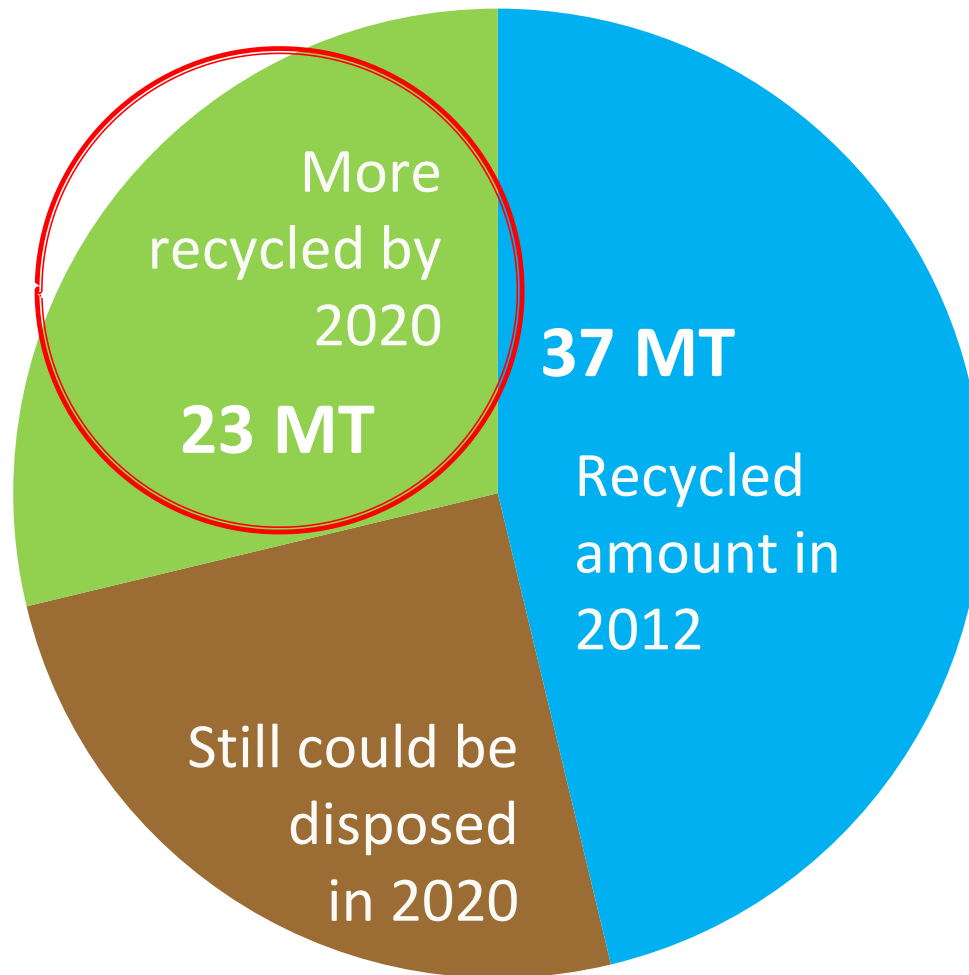
Biosolids

# Disposal Stream - 2014

(half is organic)



# Projected Tonnages to Reach 75% (AB 341)



# Double the Infrastructure to Achieve Climate/Solid Waste Goals

## 10-12 million tons of organics still being landfilled

- 30-100 new facilities needed, depending on size
- Large regional facilities part of the solution
- Community-scale systems needed too

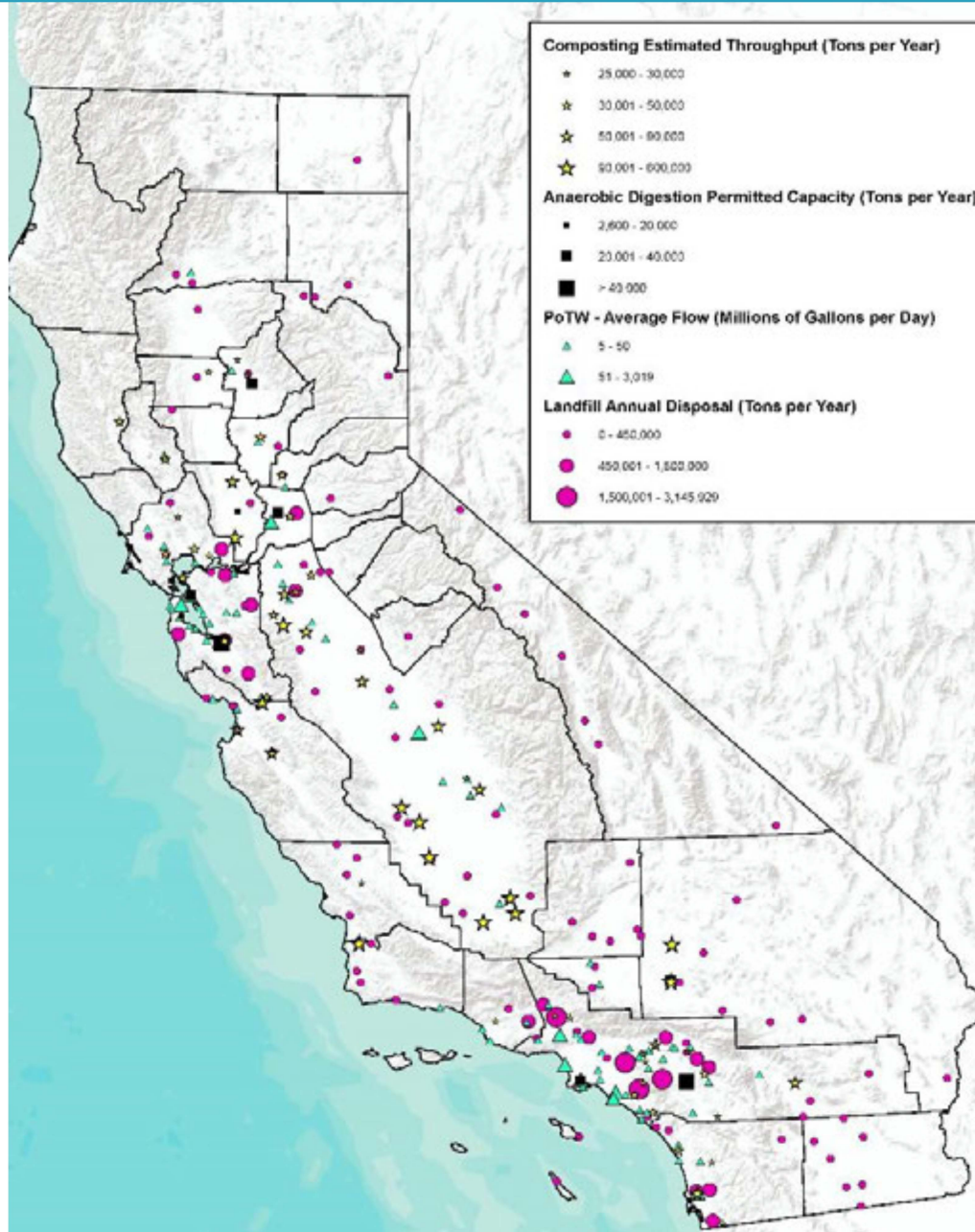
## More than one way to handle food

- Prevent food waste
- Feed hungry people
- Feed animals
- Composting: Aerobic decomposition
- Anaerobic digestion: in vessel, produce biogas
- Other new processes

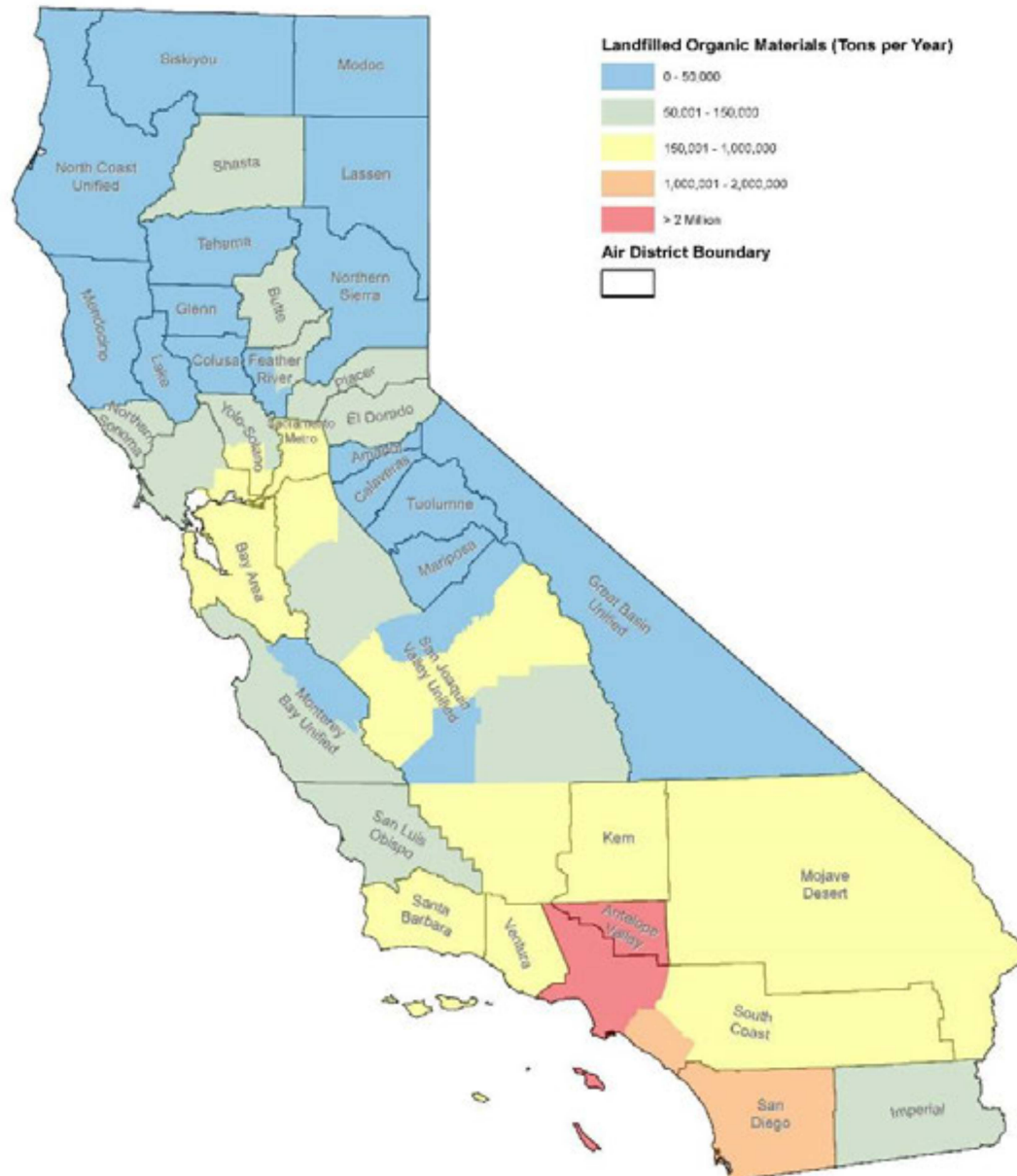


**Digester under construction, CR&R Inc. , Perris, CA**

# Current facilities



# Origin of Organics Currently being Landfilled





# Organics being Landfilled AFTER using Existing Excess Capacity

## Composting Estimated Available Capacity (Tons per Year)

- ★ 0 - 7,000
- ☆ 7,001 - 22,000
- ☆ 22,001 - 80,000
- ☆ 80,001 - 350,000

## Anaerobic Digestion Permitted Capacity (Tons per year, excess unknown)

- 1 - 10,000
- 10,001 - 35,000
- > 35,000

## POTW Average Flow (Millions of gallons per year)

- ▲ 5 - 50
- ▲ 51 - 309





# Challenges & Barriers to Additional Organics Infrastructure

- Planning, Siting, CEQA
- Permitting, Environmental Regulations
- Product Quality, Markets, Demand
- Competing Costs, Financing

# CalRecycle Funding

## ▶ Greenhouse Gas Reduction Fund Grants

- Cycle 2 (FY 16/17) – \$40 million mostly for organics
  - ~\$24M for organics infrastructure
    - \$12M Digestion Projects – \$4 million max
    - \$12M Composting Projects – \$3 million max (\$3M set aside for Rural Projects)
  - ~\$5 million for food waste prevention/rescue
  - 2 Workshops re: disadvantaged communities
  - Tentative funding notices ~ December 2016

## CalRecycle Loans

- GGRF Loans ~\$7M available
- RMDZ Loans ~\$7M available

# Organics Grant Program

- ▶ Eligible projects include construction, renovation, or expansion of facilities to increase in-state infrastructure for:
  - Digestion or composting of organics into compost, soil amendments, biofuels, or bioenergy
  - Food waste prevention component or partner located in Disadvantaged Communities (DAC) receives DAC points when scored.

# Organics Grant Program

## Tentative Timeline

| Date                          | Activity   |
|-------------------------------|--|
| October 2016                  | Stakeholder Workshops (Sacramento - 10/20 & Fresno - 10/26)              |
| February - November 2016      | Guidance, Expenditure Record, and Quantification Methodology Development |
| November 2016                 | Criteria Presentation at CalRecycle Public Meeting & Director Approval   |
| December 2016 or January 2017 | Application Release  |
| March 2017                    | Application Due Date   |
| July or August 2017           | Grant Awards   |
| April 1, 2020                 | Grant Term End Date  |

# IAWWG Solutions

## ➤ Permitting Group

- Organic management processes, feedstocks, emissions
- Best Management Practices / Air Pollution Control Technologies
- State-approved emissions factors
- Suggested Control Measures
- VOC Offsets

# IAWWG Solutions – cont'd

## ➤ Economics/Incentives Group

- Cost of new facilities
- Cost & Availability of Offsets
- GGRF Organic Infrastructure grants
- GGRF Food waste prevention and rescue grants
- RMDZ loans
- HSI compost incentives
- AB 118
- LCFS

# IAWWG Solutions – cont'd

## ➤ CEQA/Siting Group

- Identify siting issues for new facilities
- Identify potential negative environmental impacts of new facilities
- Evaluate mitigation strategies for negative impacts
- Programmatic EIR



# Selected Ongoing Activities

- ▶ Healthy Soils Initiative
- ▶ ARB/CAPCOA working group
- ▶ Land application
- ▶ Compost co-benefits quantification
- ▶ Water-efficient landscaping
- ▶ AB 1826 compliance
- ▶ SLCP Plan and SB 1383 rulemaking
- ▶ Scoping Plan Update

# Resources

- ARB's SLCP Webpage

<http://www.arb.ca.gov/cc/shortlived/shortlived.htm>

- Links to CalRecycle Programs

<http://www.calrecycle.ca.gov/organics/>

# Questions?